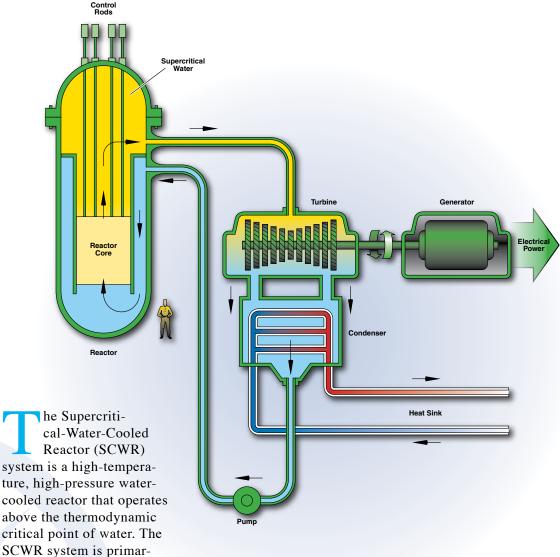
Supercritical-Water-Cooled Reactor (SCWR)

The SCWR system is primarily designed for efficient electricity production, with the capability for actinide management depending on the core design.





trum reactor has a closed fuel cycle and full actinide recycle based on advanced aqueous processing at a central location. The reference system is 1,700 MWe with an operating pressure of 25 MPa, and a reactor outlet temperature of 510 degrees Celsius, possibly

ranging up to 550 degrees Celsius. The fuel is uranium oxide. Passive safety features similar to those of simplified boiling water reactors are incorporated.

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ily designed for efficient

electricity production, with

the capability for actinide

management depending on

the core design. The SCWR

can be designed as either

a thermal or fast-spectrum

reactor. The thermal design

is primarily for electricity

generation. The fast-spec-